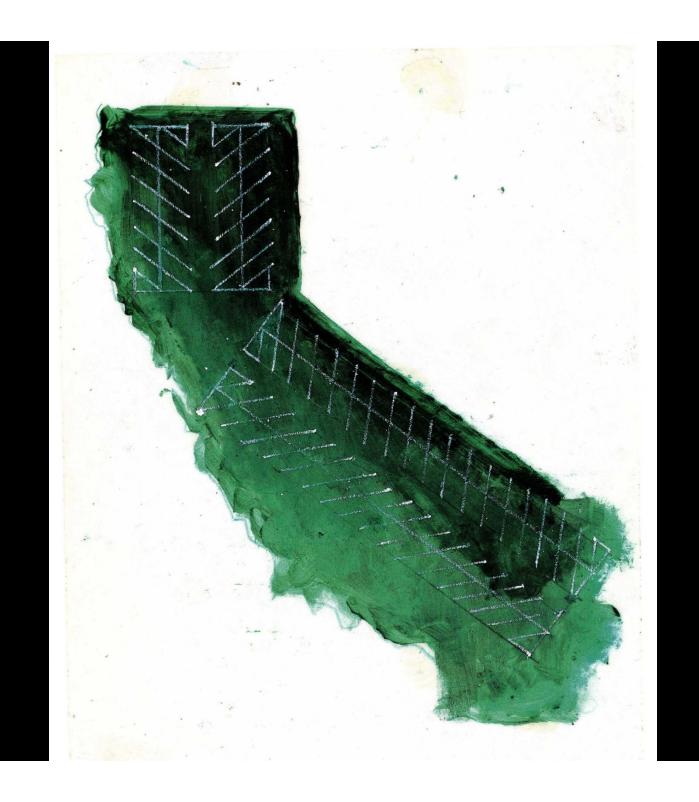
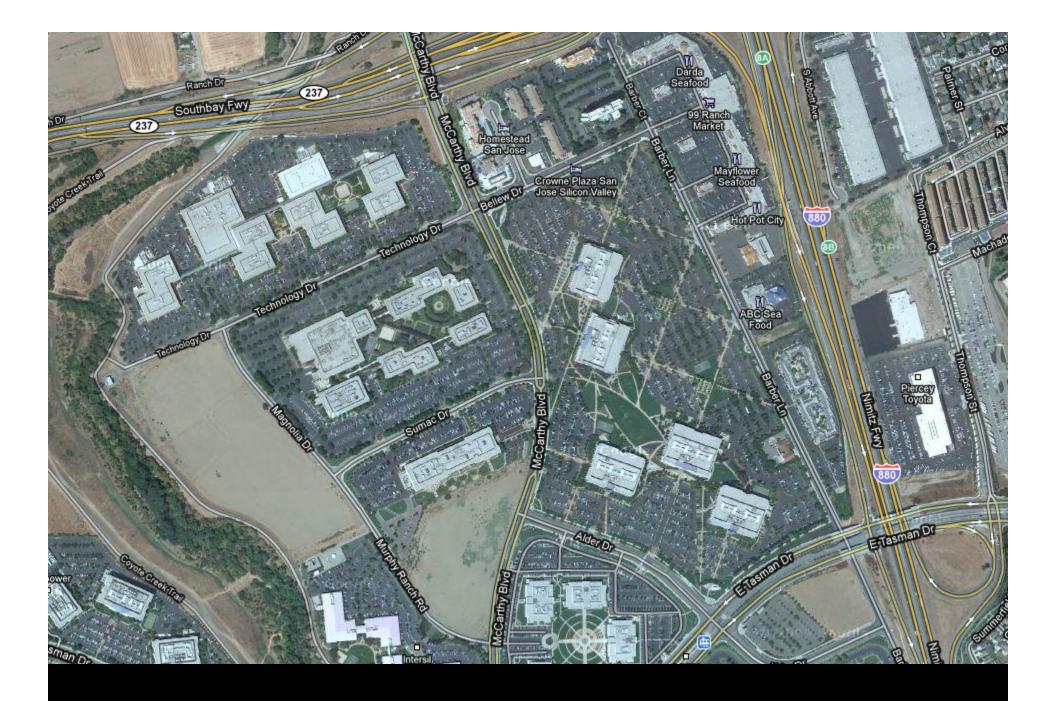


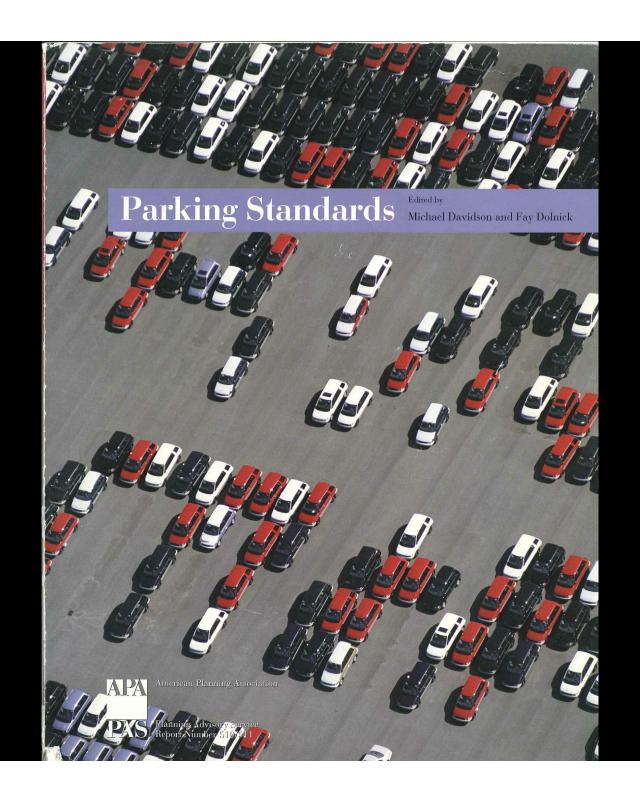
The High Cost of Free Parking

DONALD SHOUP









Survey of parking requirements for 660 land uses in 2002

ALL USES

| a | appliance sales establishment | service establishment) |
|--|---|---|
| abattoir (see slaughterhouse) | aquaculture use | automobile salvage yard (see also junk |
| accessory dwelling unit | aquarium | yard) |
| administrative office (see office uses) | arboretum (see also botanical gardens; | automobile service station (see also gas |
| adult use | community garden) | station) |
| adult use, adult arcade | arcade, amusement (see also amusement | • |
| adult use, adult cabaret | enterprise uses) | b |
| adult use, adult motion picture theater | archery range (see also rifle range; shooting | bait shop (see also retail use, unless |
| adult use, adult theater | range) | otherwise specified) |
| adult use, book store | arena (see stadium) | bakery |
| adult use, entertainment facility | armory | bakery, wholesale |
| adult use, massage parlor (see also massage | art gallery (see also cultural uses) | ball field (see also athletic field; |
| establishment) | art school (see educational facilities, school | grandstands; recreation facility uses) |
| adult use, sex novelty shop | for the arts) | ballroom (see also banquet hall; dance hall) |
| advertising agency (see also office use) | art supplies store | bank (see also accessory banking; |
| agricultural use, unless otherwise specified | artisan workshop (see also live-work studio) | automated teller machine (ATM); credit |
| (see also farm uses) | artist studio (see also artisan workshop; live- | union) |
| agricultural processing plant (see also | work studio) | bank, drive-thru only (see also drive-thru |
| industrial uses) | asphalt manufacturing facility (see also | use, unless otherwise specified) |
| agricultural-related industry (see also | industrial use, heavy) | bank with drive-thru (see also drive-thru |
| agricultural use, unless otherwise | assembly hall (see also auditorium; civic | use, unless otherwise specified) |
| specified) | center) | bank, without drive-thru |
| agricultural sales and service use (see also | assisted living (see elderly housing, assisted | banquet hall (see also ballroom; dining |
| farm supply store; feed store) | living) | room; meeting hall) |
| aircraft charter service | asylum (see mental health facility) | bar (see also beer garden; bottle club; brew |
| airport (see also airport terminal) | athletic field (see also ball field; | pub; night club) |
| airport hangar | grandstands; recreation facility uses) | barber shop (see also beauty shop; personal |
| airport, local/private use | auction, automobile | services establishment) |
| airport terminal (see also airport; | auction house | baseball field (see ballfield) |
| transportation terminal) | auditorium (see also assembly hall; civic | basketball court |
| ambulance service | center) | batch plant (see concrete production plant) |
| amphitheater (see also stadium) | automated teller machine (ATM) | bathhouse (see also health spa; sauna bath) |
| amusement enterprise (see also recreation | automated teller machine (ATM), exterior, | batting cage facility |
| facility uses) | on bank property | beach, commercial |
| amusement enterprise, indoor | automobile convenience store (see gas | beach, community |
| amusement enterprise, outdoor | station, mini-mart) | beauty shop (see also barber shop; personal |
| amusement park | automobile dealership (see also motor | services establishment) |
| amusement park, children's | vehicle sales establishment) | beauty school (see also educational facility; |
| amusement park, water | automobile graveyard (see automobile | trade school) |
| ancillary use (see accessory use) | salvage yard; junk yard) | bed and breakfast home |
| animal boarding facility | automobile impound facility (see also | bed and breakfast inn (see also tourist home) |
| animal breeder establishment | towing service) | beer garden (see also outdoor seating area) |
| animal grooming salon | automobile laundry (see car wash uses) | bicycle rental and repair shop |
| animal hospital | automobile maintenance, quick service | bicycle repair shop |
| animal sales establishment (see pet shop) | establishment (see also automobile repair | bicycle sales shop |
| animal shelter | service establishment) | billiard hall (see pool hall) |
| animal training facility | automobile mall (see automobile dealership | big box retail establishment (see also |
| antique shop (see also second-hand store) | uses) | department store; shopping center uses) |
| apartment (see dwelling, apartment uses) | automobile parts store | bingo hall |
| apartment hotel (see extended-stay hotel) | automobile rental establishment (see also | blood donor center |
| apparel store (see clothing store) | motor vehicle rental establishment) | blueprinting shop (see also copy shop; |
| appliance and equipment repair | automobile repair service establishment | printing and publishing facility) |
| establishment (see also equipment uses) | (see also gas station; motor vehicle repair | boarding house (see also lodging house; |
| | | |



abattoir (see slaughterhouse)

accessory dwelling unit

- 1 additional space, on the same zone lot (*Greensboro*, N.C., pop. 223,891)
- 1 per attached accessory dwelling unit, in addition to other required spaces (Washoe County, Nev., pop. 339 486)
 - 1 per bedroom (Reno, Nev., pop. 180,480)
 - 1 space (Encinitas, Calif., pop. 58,014)
 - 1 space per unit (Palo Alto, Calif., pop. 58,598)
 - 2 spaces per unit; such space must have convenient access to a street (Smithfield, Va., pop. 6,324)



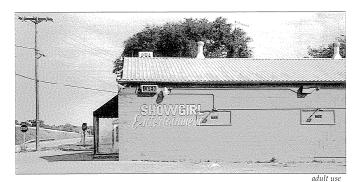
Bicycle Parking Standard: 0.5 per 1,000; 1 per 20 seats (*Tigard*, *Ore.*, pop. 41,223)

adult use adult arcade

1 parking space shall be provided for every 2 occupants per the allowable occupant load as established by the city's building official or fire mashall, whichever standard is greater. In addition, 1 parking space shall be provided for each employee or independent contractor on the maximum shift. (Santa Clarita, Calif., pop. 151.088)

adult use, adult cabaret

- 1 parking space shall be provided for every 2 occupants per the allowable occupant load as established by the city's building official or fire mashall, which ever standard is greater. In addition, 1 parking space shall be provided for each employee or independent contractor on the maximum shift. (Santa Clarita, Calif., ppp. 151,088)
- 1 space per 25 square feet of gross floor area (Garden Grove, Calif., pop. 165,196)



administrative office (see office uses)

adult use

- 0.3 per seat, plus 3.3 per 1,000 square feet of gross floor area (*Tampa*, *Fla.*, pop. 303,447)
- 1 per 60 square feet (Henderson, Nev., 175,381)
- 10 per 1,000 square feet (Hickory, N.C., pop. 37,222)
- 12 per 1,000 square feet (St. Mary's County, Md., pop. 86,211)

Minimum: 1 per 500 square feet above first 2,400 square feet

Maximum: 1 per 150 square feet (Pittsburgh, Pa., pop. 334,563)

Minimum: 1 per 250 square feet of gross floor area Maximum: 1 per 200 square feet of gross floor area (Glenville, N.Y., pop. 28,183)

- 1 per 200 square feet (Fort Wayne, Ind., pop. 205,727)
- 10 per 1,000 square feet, but not less than 15 (Clark County, Nev., pop. 1,375,365)

adult use, adult motion picture theater

- 1 off-street parking space for each 10 seats or equivalent (San Bruno, Calif., pop. 40,165)
- 1 parking space shall be provided for every 2 occupants per the allowable occupant load as established by the city's building official or fire mashall, which ever standard is greater. In addition, 1 parking space shall be provided for each employee or independent contractor on the maximum shift. (Santa Clarita, Calif., pop. 151,088)
- 1 space for each 8 fixed seats or 1 space for each 100 square feet of spectator assembly area not containing fixed seats (Seattle, Wash., pop. 563,374)

A parking requirement sampler

Barber shop

Beauty shop

Nunnery

Rectory

Sex novelty shop

Gas station

Swimming pool

Mausoleum

2 spaces per barber

3 spaces per beautician

1 space per 10 nuns

3 spaces per 4 clergymen

3 spaces per 1,000 square feet

1.5 spaces per fuel nozzle

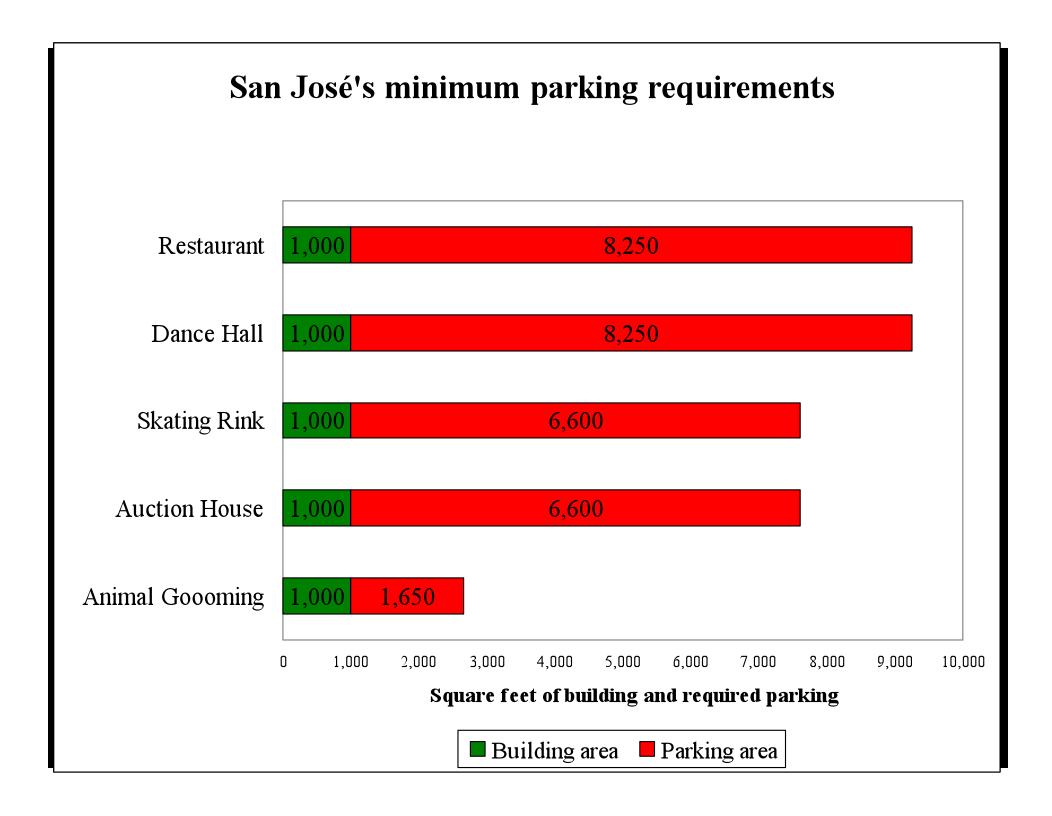
1 space per 2,500 gallons

10 spaces per maximum number of interments in a one-hour

period

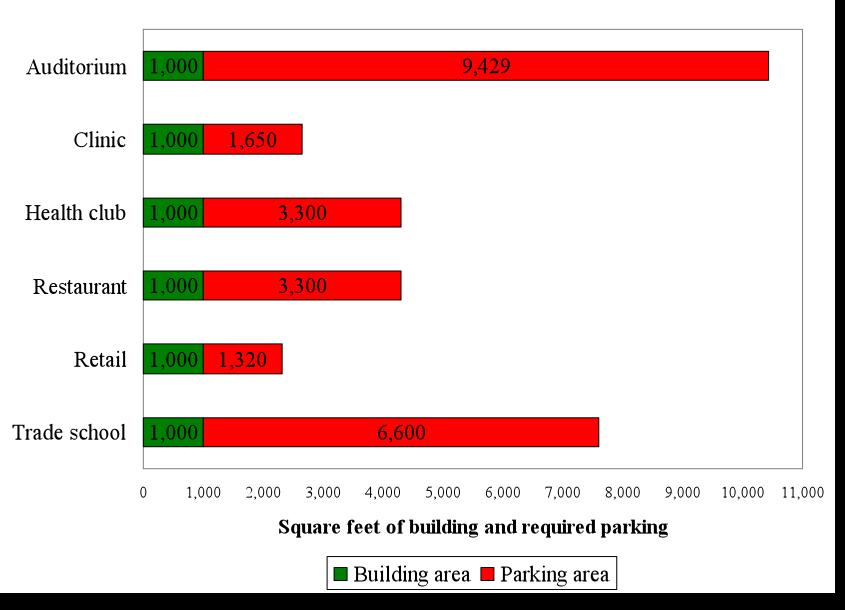
Two Mistakes in Parking Policy

- 1. Keep curb parking free or cheap
- 2. Require lots of off-street parking



| | 20-190 | |
|--|--|-------------------------|
| ~ | quired by Land Use | |
| Use | Parking Required | Applicable Sections |
| Community centers | 1 per 4 fixed seats, or 1 per 6 linear feet of seating, plus 1 per 200 square feet of area without seating but designed for meeting or assembly by guests, plus 1 per 500 sq. ft. of outdoor area developed for recreational purposes | |
| Utility facilities, excluding corporation yards, storage or repair yards and warehouses | 1 per 1.5 employees, plus 1 per company vehicle | |
| Recycling Uses | | |
| Processing facility | 1 per employee of the largest shift, plus 1 per facility vehicle | |
| Transfer facility | 1 per employee of the largest shift, plus 1 per facility vehicle | |
| Small collection facility | 1 per attendant | |
| Residential | | |
| Emergency residential shelter | 1 per 4 beds, 1 per 250 square feet of area which is used for office purposes | Section 20.90.220(C) |
| Guesthouse | 1 per guest room, plus 1 per each employee | |
| Live/Work | No additional parking required above what is required for commercial use parking | |





A Great Planning Disaster

- Skew travel choices toward cars
- Distort urban form
- Degrade urban design
- Raise housing costs
- Impede reuse of older buildings
- Limit homeownership
- Damage the urban economy
- Harm the environment

Three Reforms in Parking Policy

- 1. Charge the right price for curb parking.

 The lowest price that will leave one or two vacant spaces
 - on each block—performance-based pricing
- 2. Return the meter revenue to the neighborhoods that generate it.
 - Revenue return will make performance-based prices for curb parking politically popular.
- 3. Reduce or remove off-street parking requirements. Do not require additional parking when a building's use changes.
 - Freedom from parking requirements will allow higher density and new uses for old buildings.

1. Performance-based Parking Prices

Performance-based prices adjust over time to maintain a few vacant spaces.

The goal is to keep about 85 percent of the parking spaces occupied all the time.

About one curb space is vacant on each side of each block so that everyone can see that convenient parking is available everywhere.

Examples of pricing options

As the use of demand-responsive pricing for both on- and off-street parking is the primary tool for reducing congestion, the pricing models the SFMTA intends to test and evaluate merit special illustration. The following tables use hypothetical values to illustrate these pricing structures.

Vary price by time of day

| Time when parked | Price per hour |
|------------------|----------------|
| 8am-10am | \$3.50 |
| 10am-4pm | \$2.00 |
| 4pm-7pm | \$3.00 |
| 7pm-9pm | \$1.00 |

Vary price by length of stay

| Hour of parking | Price for that hour |
|--|---------------------|
| 1 st | \$1.00 |
| 2 nd | \$1.50 |
| 3rd | \$2.00 |
| 4 th (and successive hours) | \$2.50 |

Before SFpark



Block A - Central Business District Location - 0 Open Spots













Block B - Nearby Location - 3 Open Spots

After SFpark



















Block A - Central Business District Location - 1 Open Spot





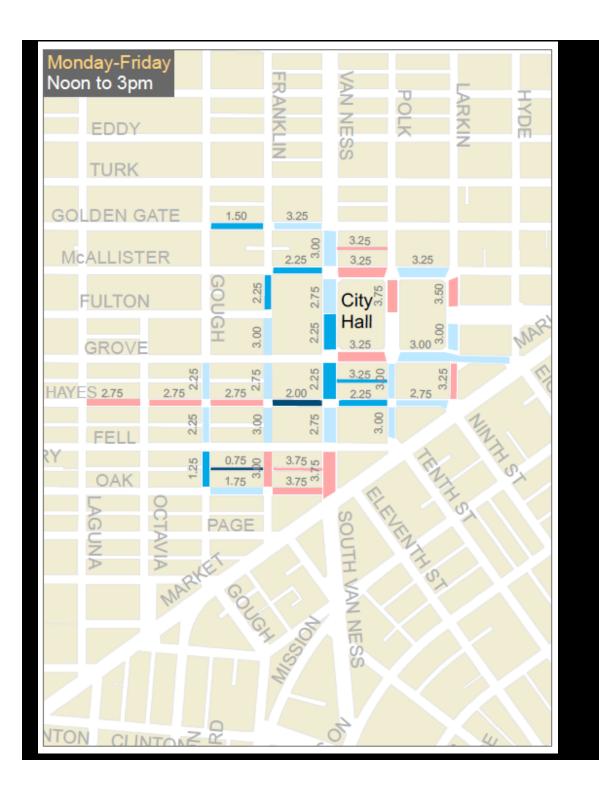








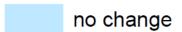
Block B - Nearby Location - 2 Open Spots



Civic Center Pilot Area

Meter Rate Changes December 2011







2. Revenue Return





1978 Plan for Old Pasadena

- "The area's been going downhill for years."
- "It's a bunch of dirty old buildings."
- "It's filthy."
- "It's Pasadena's sick child."
- "The area is unsafe."

Old Pasadena Now



Parking meters with revenue return

- City of Pasadena offered to return all parking meter revenue to Old Pasadena
- Merchants and property owners immediately agreed to install meters
- 690 meters operate until midnight, and on Sunday
- Meters yield \$1.2 million a year for Old Pasadena's 15 blocks, about \$80,000 per block.

OLD PASADENA COMING SOON

STREET AND ALLEY WAY IMPROVEMENTS:

LICHTING
REPAVING
TRASH RECEPTACLES
SIGNS AND BENCHES
DIRECTORY MAPS
TREES AND GRATES
NEWSRACKS
MAINTENANCE
SAFETY

YOUR METER MONEY IS MAKING A DIFFERENCE

THE OLD PASADENA RENAISSANCE CONTINUES

CITY OF PASADENA

Turning Small Change into Big Changes





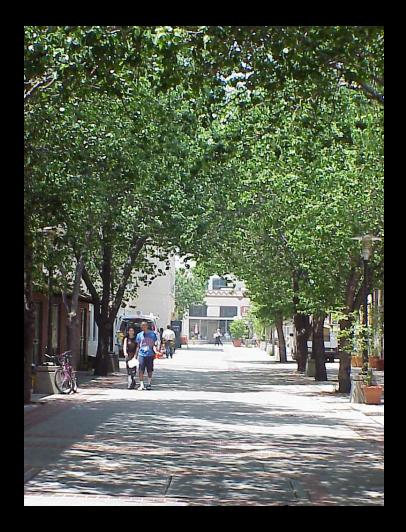


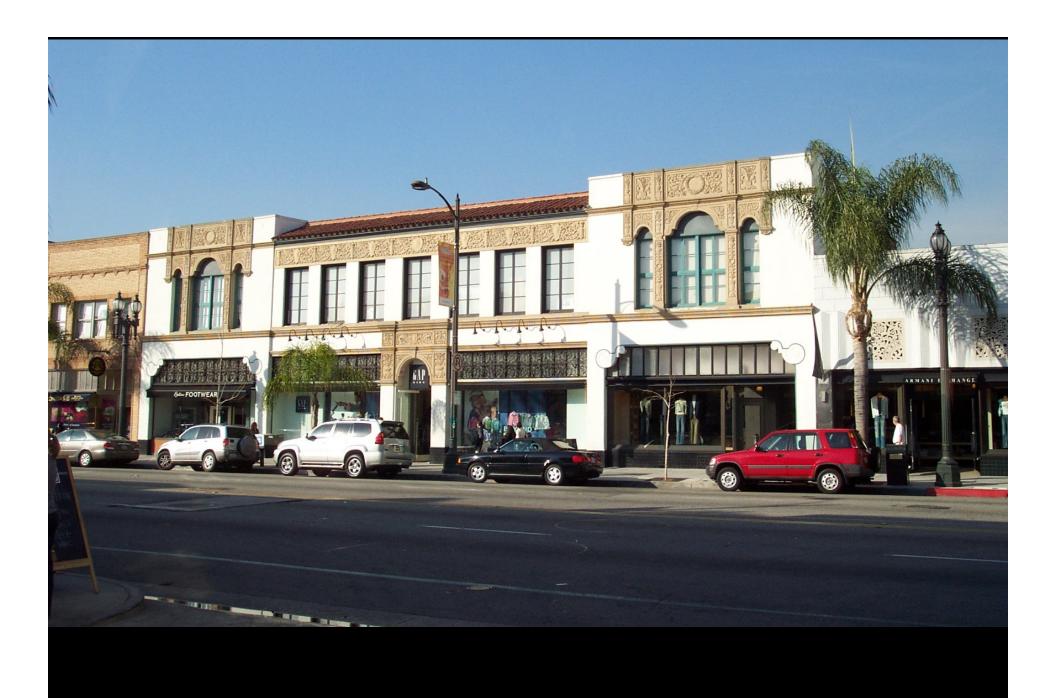




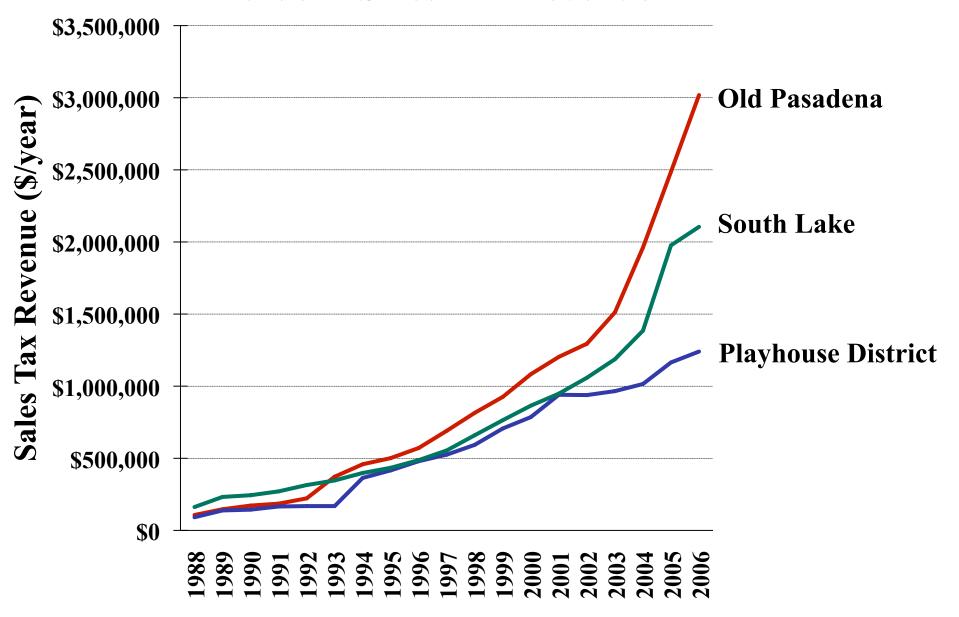




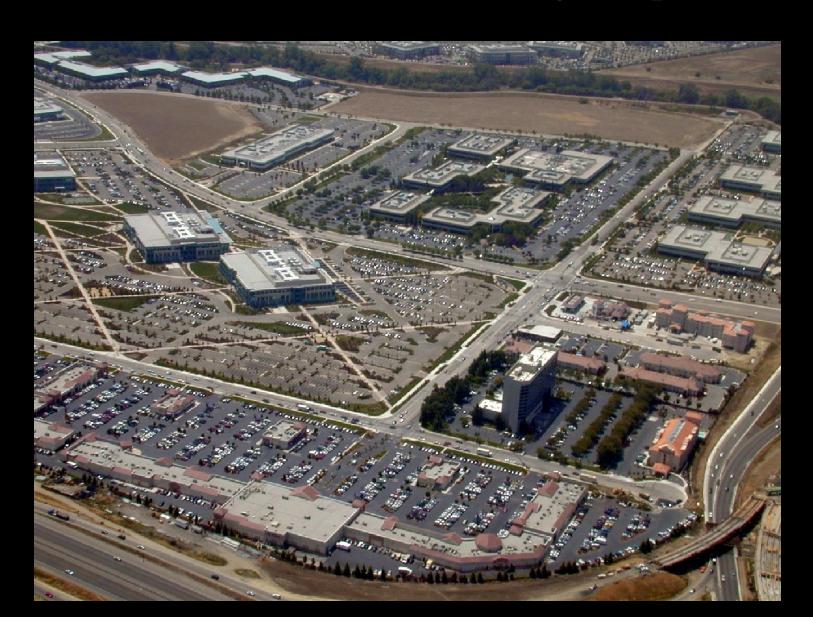




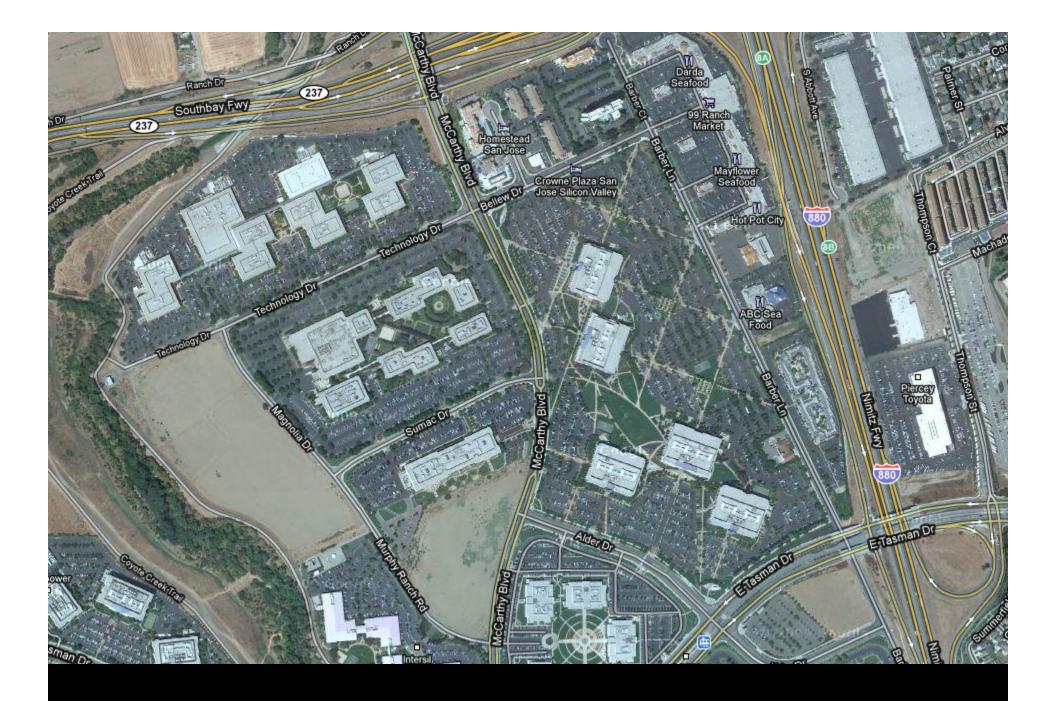
Pasadena Sales Tax Revenue



3. Remove Off-street Parking Requirements

















Effects of building job-adjacent housing on former parking lots

Increase housing supply

Reduce time spent commuting

Reduce spending on cars and fuel

Reduce traffic congestion and air pollution

Maybe even slow down climate change

Two Aspects of Parking Requirements

- 1. For a new building, parking requirements determine the number of spaces a developer must *supply*.
- 2. For an existing building, parking requirements limit the uses a city will allow.

Los Angeles Adaptive Reuse

Ordinance

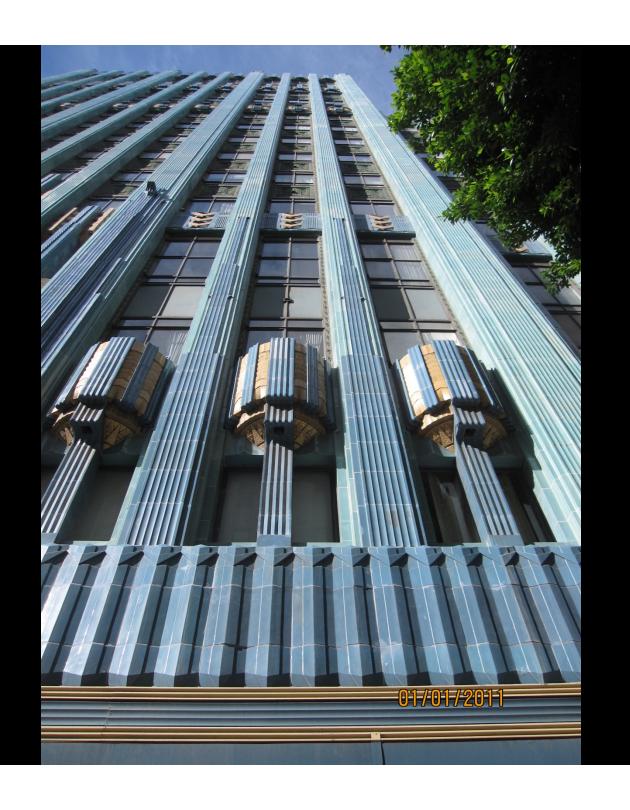
Until 1999, Los Angeles required two parking spaces per condominium unit in downtown.

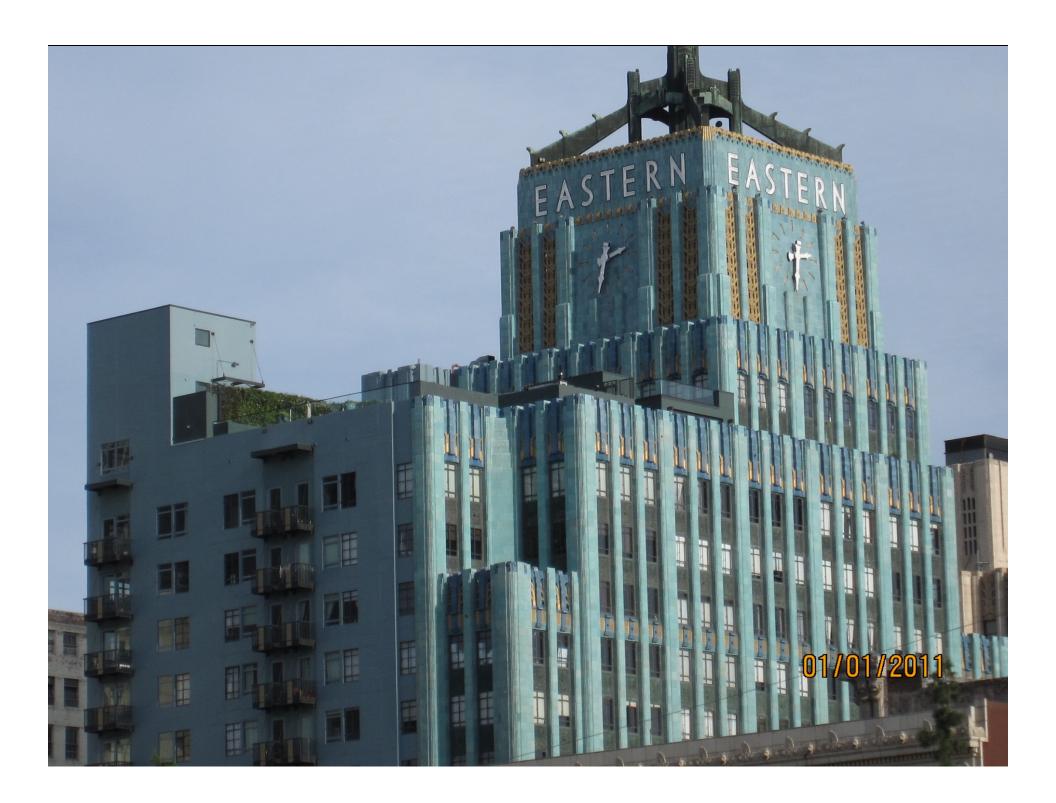
"a neighborhood of hoodlums, derelicts and winos—a neighborhood of echoing buildings full of absolutely nothing above the ground floor." *Los Angeles Times*, 1982

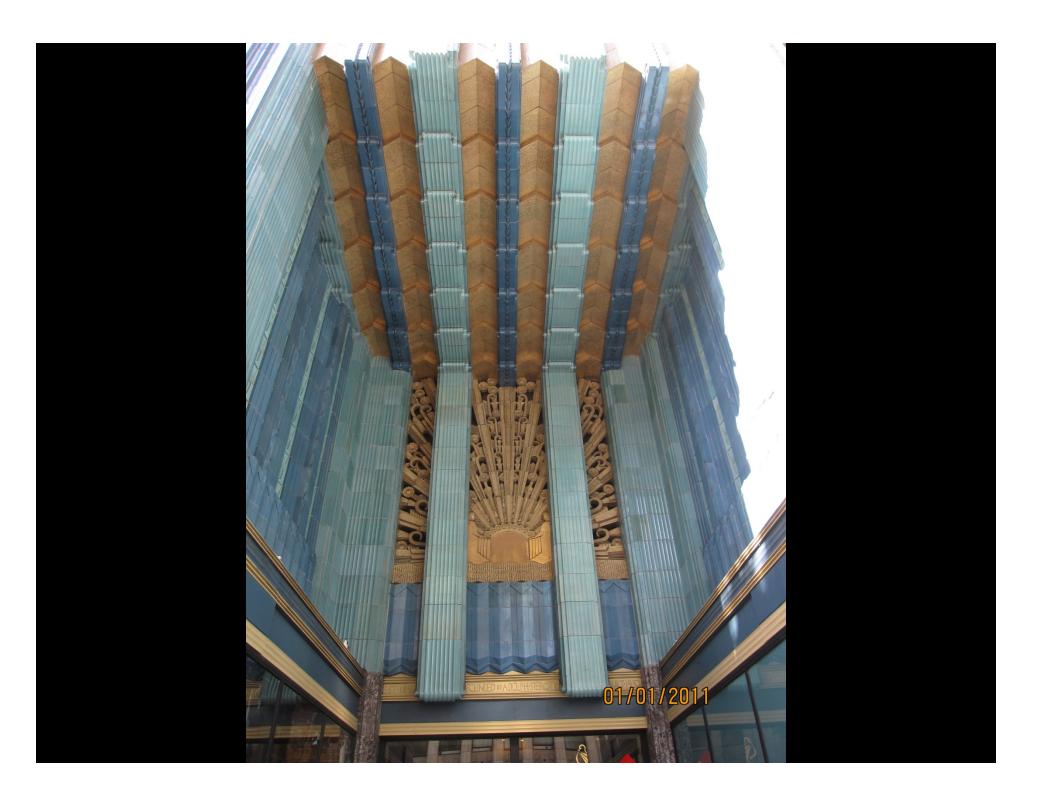
In 1999, Los Angeles adopted its Adaptive Reuse Ordinance (ARO), which allows the conversion of economically distressed or historically significant office buildings into new residential units—with no new parking spaces.

Developers used the ARO to convert historic office buildings into at least 7,300 new housing units between 1999 and 2008.























Developers provided, on average, only 1.3 spaces per unit, with 0.9 spaces onsite and 0.4 off-site in nearby lots or garages.

Had the ARO not been adopted, the city would have required two *on-site* spaces for every unit, or more than twice as many as developers did provide.



Other cities are removing parking requirements in downtown

- "to promote the creation of downtown apartments" (Greenfield, Massachusetts)
- "to see more affordable housing" (Miami)
- "to meet the needs of smaller businesses" (Muskegon, Michigan)
- "to give business owners more flexibility while creating a vibrant downtown" (Sandpoint, Idaho)
- "to prevent ugly, auto-oriented townhouses" (Seattle).

THIS ONE RUNS ON FAT AND SAVES YOU MONEY

の多

THIS ONE RUNS ON MONEY AND MAKES YOU FAT



If you want to:

Reduce unnecessary vehicle travel

Reduce traffic congestion

Reduce air pollution

Reduce energy waste

Reduce greenhouse gas emissions

Improve neighborhood public services

Increase the supply of housing

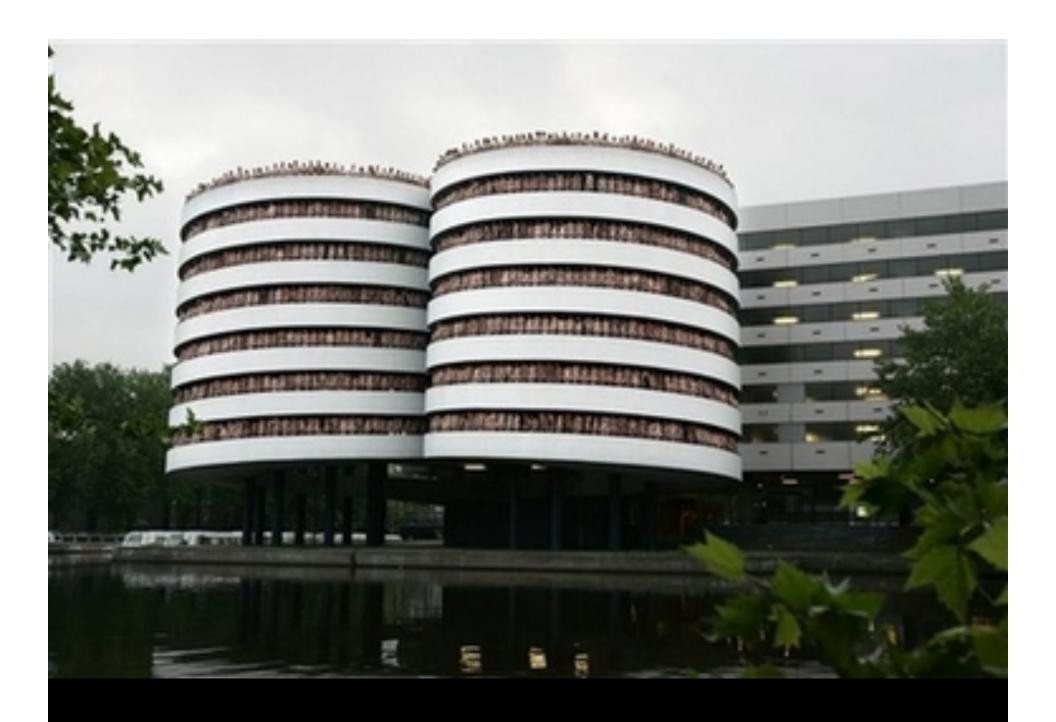
And do all this quickly

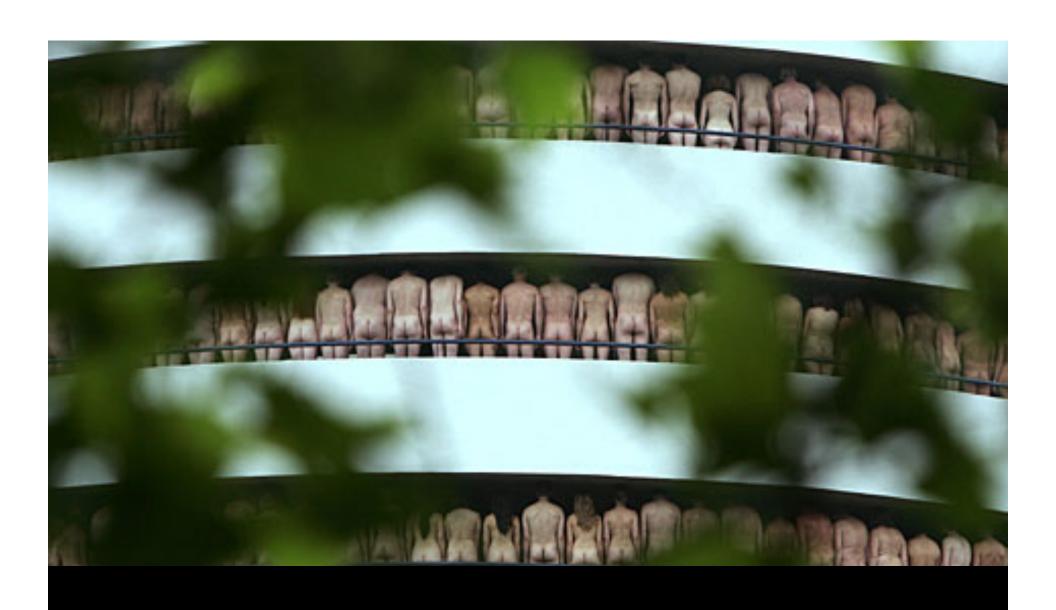
GET THE PRICE OF CURB PARKING RIGHT

SPEND THE REVENUE FOR LOCAL PUBLIC SERVICES

REMOVE OFF-STREET PARKING REQUIREMENTS







All of us, if we are reasonably comfortable, healthy and safe, owe immense debts to the past. There is no way, of course, to repay the past. We can only repay those debts by making gifts to the future." Jane Jacobs

As our case is new, so must we think anew, and act anew.

Abraham

Lincoln